

Mini Bypass Level Indicator

BNA-S21/22

The Mini Bypass Level Indicator is the "light" version in the family available with lengths up to 3000 mm, medium temperatures up to 150 °C and pressures up to 16 bar max.

Features

This "light version" is easy to handle, ideal to replace sight glasses and low in cost due to the many OEM applications.

Measuring ranges

LM max. 3000 mm in one piece,
max. LM in split sections on request

Applications

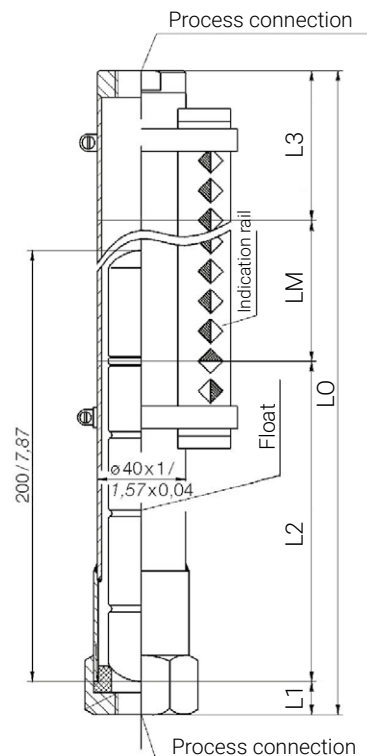
Tanks in which due to their construction internal measurement is impossible, e.g. ship building, sewage works.

Technical Data

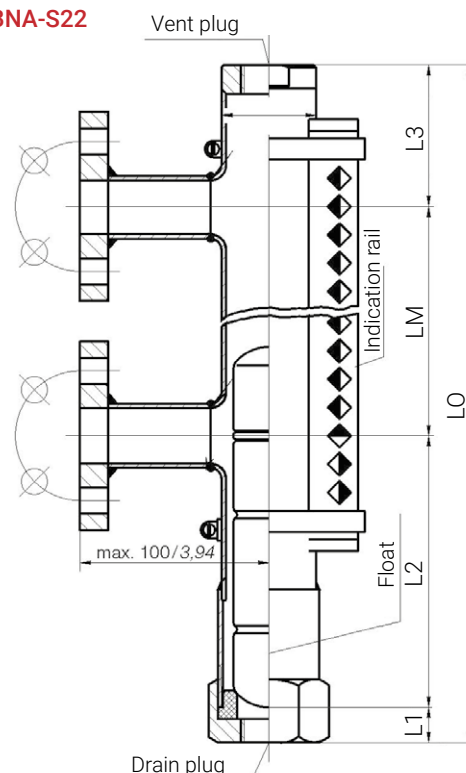
Bypass tube:	Stainless steel 1.4571 (SS 316 Ti) PN 16, Ø = 40 x 1 mm
Float: Standard:	VA 30/02: 1.4571 (SS 316Ti), max. 16 bar and 150 °C, min. density: 0.85 g/cm³
Option:	TT 30/02: in Titanium, PN 25, min. density: 0.85 g/cm³ max. temperature: 150 °C Buna N: BN 32/100, PN 10, min. density: 0.75 g/cm³ max. temperature: 90 °C
Prüfdruck:	according to DIN EN 13445 / AD 2000 HP 30
Process connection:	BNA-S21 top and bottom connections: R 1 ¼" with hex. nut for service, G½ top and bottom with plug BNA-S22 side connections: thread R ½" or flanges in: DIN DN 15, 20, 25 or ANSI ½", ¾", 1", NPT: ½"
Indication rail:	Makrolon (polycarbonate) clear, with white/red indication flags, up to 150 °C media dependent
Accessories:	Limit switches, (see datasheet) Transmitters XM/XMi, XT/XTi (see datasheet) Scale, (see datasheet accessories) Tests / certificates

Dimensions (mm / inch)

BNA-S21



BNA-S22



Dimensions

Float	Process connection (BNA-S21) Vent and Drain (BNA-S22)	L1	L2	L3	L0
VA / TT	G1/2 (DIN ISO 228)	18mm [0,71]	150mm [5,91]	70mm [2,76]	LM+238mm [9,37]
VA / TT	1/2" NPT (ANSI B 1.20.1)	28mm [1,10]	150mm [5,91]	80mm [3,15]	LM+258mm [10,16]
BN32/100	G1/2 (DIN ISO 228)	18mm [0,71]	80mm [3,15]	70mm [2,76]	LM+168mm [6,61]
BN32/100	1/2" NPT (ANSI B 1.20.1)	28mm [1,10]	80mm [3,15]	80mm [3,15]	LM+188mm [7,40]

Dimensions in brackets are in inches

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Order Code

Type:	Version:
BNA-S21	PN 16, G½ female connections top and bottom, Makrolon indication rail
BNA-S22	PN 16, side connections, Makrolon indication rail

Side connections:

R ½"	Side process connection
½" NPT	Side process connection
R ¾"	Side process connection
DN 15	Flange according to DIN 2633 (flange face form C) or EN 1092-1
DN 20	Flange according to DIN 2527 (flange face form C) or EN 1092-1
DN 25	Flange according to DIN 2527 (flange face form C) or EN 1092-1, however tube OD remains 21.3 mm
½"	Flange according to ANSI B 16.5 150 lbs
¾"	Flange according to ANSI B 16.5 150 lbs
1"	Flange according to ANSI B 16.5 150 lbs, however tube OD remains 21.3 mm

Indicator length [mm] (example):

2000/1	LM = 2000 mm/in one piece
3600/2	LM = 3600 mm/in two pieces

Float:

VA 30/02	material 1.4571, max. 16 bar/+150 °C, min. density: 0.85 g/cm³
TT 30/02	material titanium, max. 25 bar/+150 °C, min. density: 0.85 g/cm³
BN 32/100	material Buna N, max. 10 bar/+90 °C, min. density: 0.75 g/cm³

Indication rail:

MA	Makrolon = standard, max. temperature: +150 °C
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Isolation:

PO	Poliolefine shrink tubing, weather and dust protection for indication rail, max. temperature: +105 °C
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Scale**:

* see datasheet accessories

BNA-S22	DN 15	- 3600/2	- VA 30/02	- MA	- PO	-SK	(Example)
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